

IPPM & LMAP: the glue

- LMAP defines protocols
 - between MA and controller to request tests
 - between MA and collector to report test results
- IPPM defines metrics for tests
- The glue: a registry for metrics/tests so that the LMAP protocols can refer to a specific IPPM metric/test

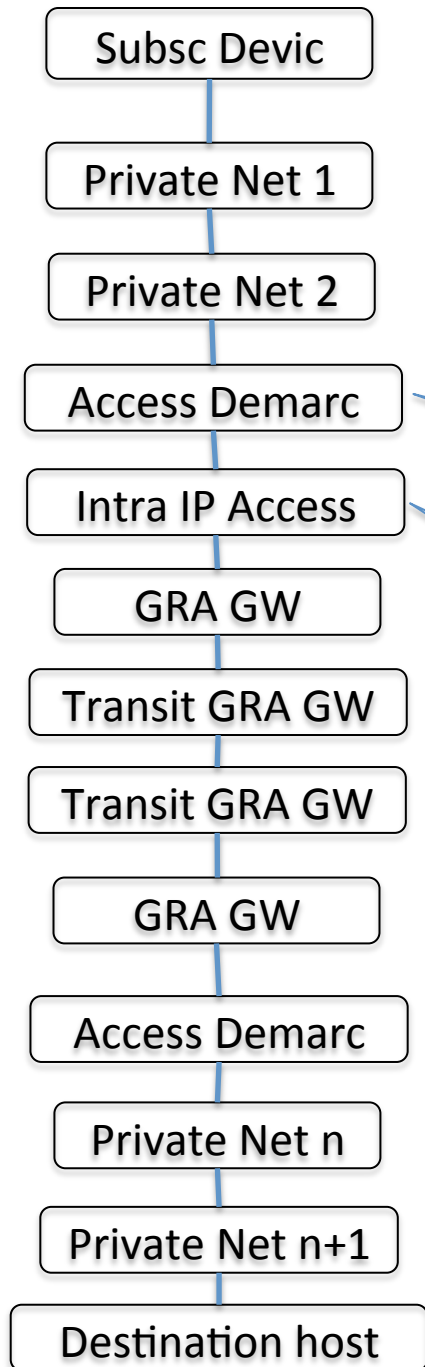
Protocol independent registry

- Protocol Independent registry: Allows multiple protocols to be defined between Controller, Measurement Agents and Collector
 - Within the same platform: e.g. IPFIX between the MA and the Collector and YANG/NETCONF between the Controller and MA
 - Across different platforms: maybe some will use IETF protocols, others will use BBF TRxx protocols or else to request and report IPPM tests
 - This may requires additional protocol specific fields in the registry

What is in the registry?

- New registry: tightly defined metric with few open parameters (don't affect the nature of the test)
 - e.g. source and dest address and the like
- Less is more: reduced number of metrics proven useful
 - Well defined metrics that have been proven useful in operations
- Side benefits:
 - Inventory of useful and used metrics
 - Comparable test results even if performed by different implementations and in different networks

Reference Path



usually defined as the Ethernet interface on a residential gateway or modem

This is the first point in the access architecture beyond the Access Service Demarc. where a globally routable IP address is exposed and used for routing.

Reference Path

